

## Abstract

## Membrane and use thereof

- 5 A membrane, that can be manufactured in that a polymer or polymer mix is shaped as desired, is charged with a gas at atmospheric pressure before or after shaping, then the gas-charged polymer is foamed at a temperature above the glass transition temperature of the polymer/gas mixture, and lastly the foam structure is stabilised by cooling, is characterised in that the gas charged polymer is foamed using an amount of 0.05 to  
10 4.5% by weight of a fluid that dissolves or swells the polymer. This membrane is preferably used for medical purposes.